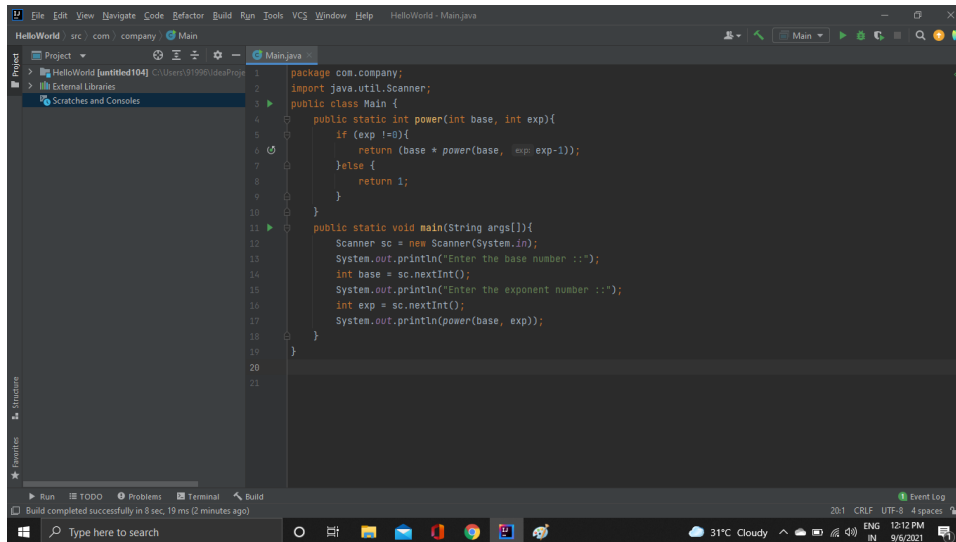


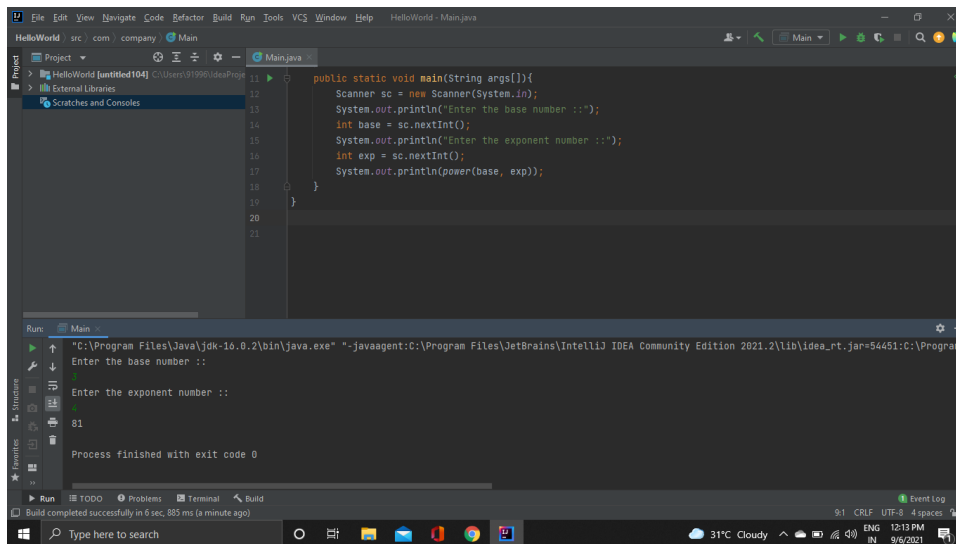
1. Find the power of a given number get base and exponent from user using scanner ?

PROGRAM :



```
1 package com.company;
2 import java.util.Scanner;
3 public class Main {
4     public static int power(int base, int exp){
5         if (exp !=0){
6             return (base * power(base, exp-1));
7         }else {
8             return 1;
9         }
10    }
11    public static void main(String args[]){
12        Scanner sc = new Scanner(System.in);
13        System.out.println("Enter the base number ::");
14        int base = sc.nextInt();
15        System.out.println("Enter the exponent number ::");
16        int exp = sc.nextInt();
17        System.out.println(power(base, exp));
18    }
19 }
20
21
```

OUTPUT :



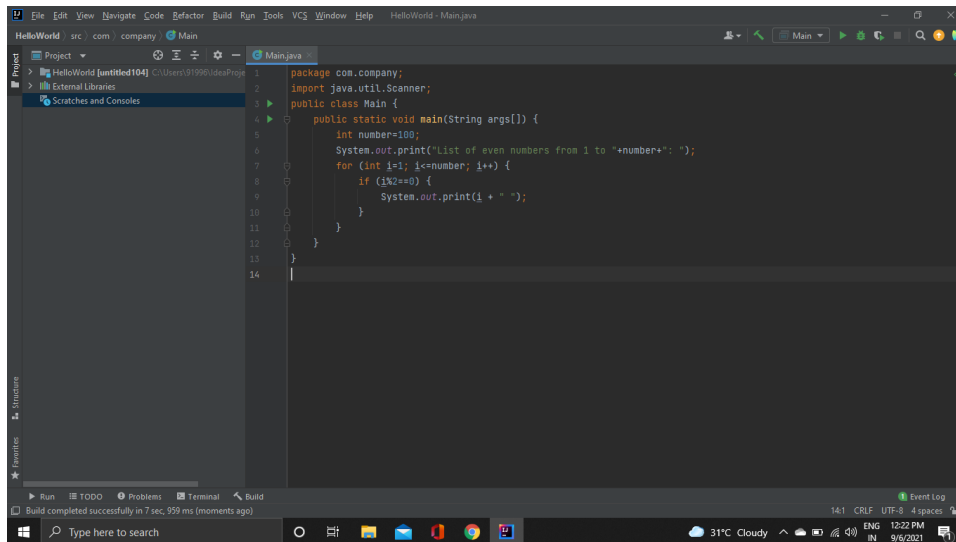
```
11 public static void main(String args[]){
12     Scanner sc = new Scanner(System.in);
13     System.out.println("Enter the base number ::");
14     int base = sc.nextInt();
15     System.out.println("Enter the exponent number ::");
16     int exp = sc.nextInt();
17     System.out.println(power(base, exp));
18 }
19 }
20
21
```

Run: Main

```
"C:\Program Files\Java\jdk-10.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea_rt.jar=54451:C:\Program
Enter the base number ::
Enter the exponent number ::
81
Process finished with exit code 0
```

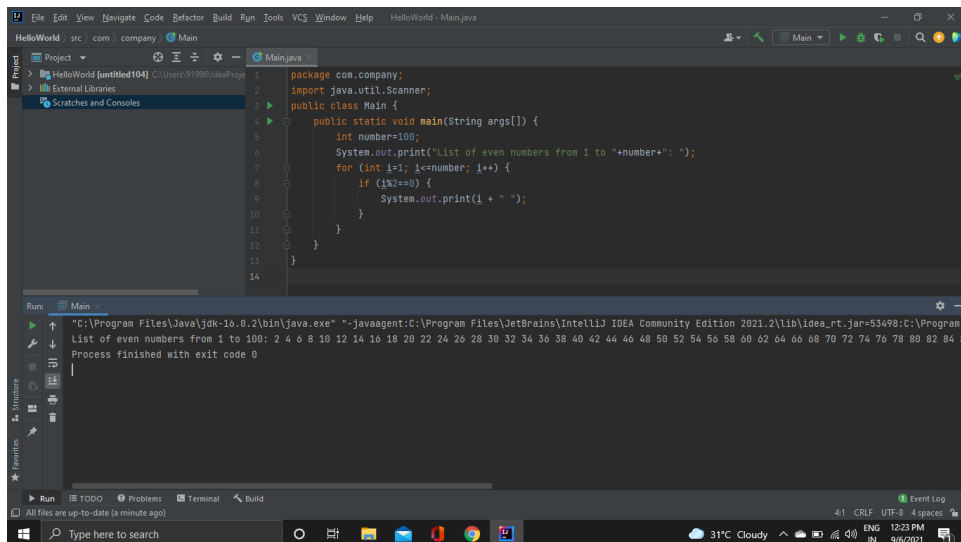
## 2. Program to display even number from 1 to 100 ?

### PROGRAM :



```
1 package com.company;
2 import java.util.Scanner;
3 public class Main {
4     public static void main(String args[]) {
5         int number=100;
6         System.out.print("List of even numbers from 1 to "+number+" : ");
7         for (int i=1; i<=number; i++) {
8             if (i%2==0) {
9                 System.out.print(i + " ");
10            }
11        }
12    }
13 }
14
```

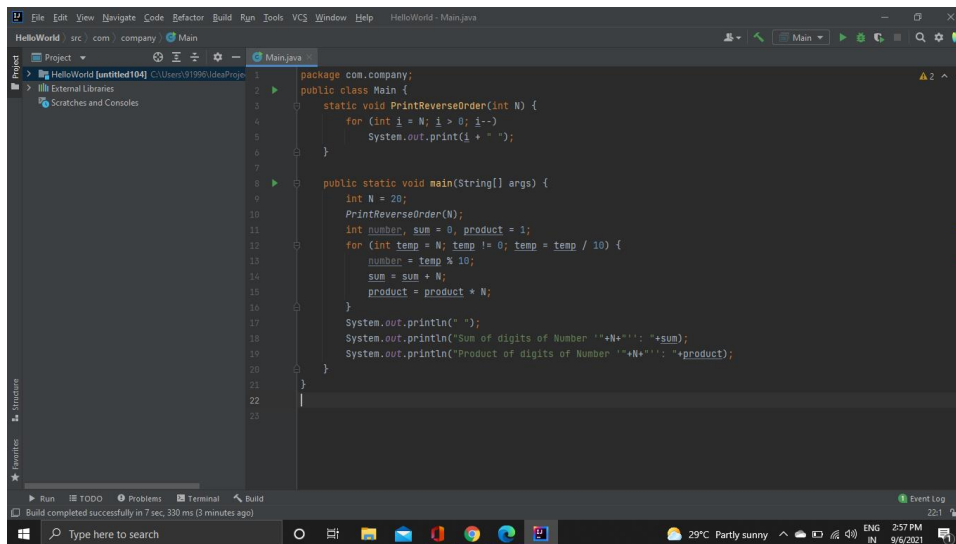
### OUTPUT :



```
Run: Main
"C:\Program Files\Java\jdk-10.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea_rt.jar=53498:C:\Program
List of even numbers from 1 to 100: 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100
Process finished with exit code 0
```

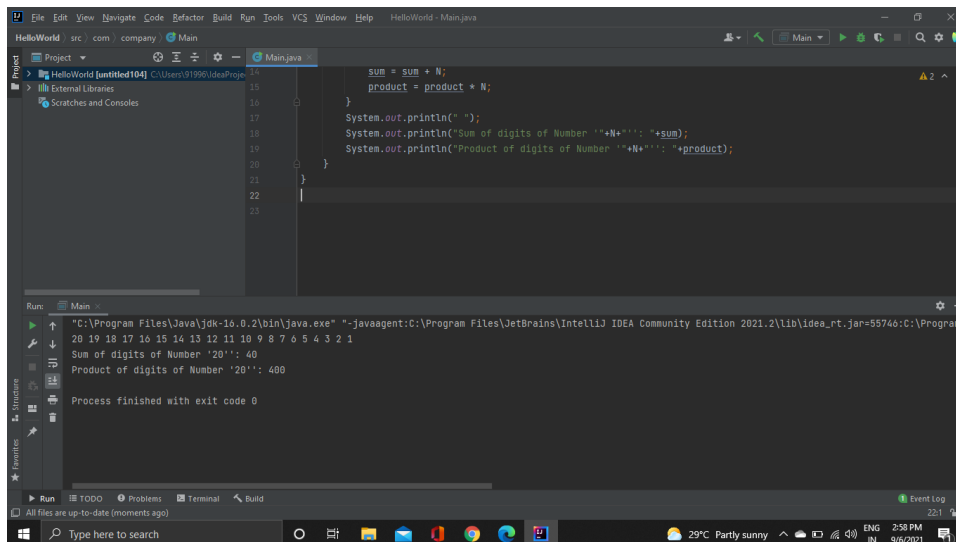
3. Program to display number in reverse order from 20 to 1 and also find sum and product ?

PROGRAM :



```
1 package com.company;
2 public class Main {
3     static void PrintReverseOrder(int N) {
4         for (int i = N; i > 0; i--)
5             System.out.print(i + " ");
6     }
7
8     public static void main(String[] args) {
9         int N = 20;
10        PrintReverseOrder(N);
11        int number, sum = 0, product = 1;
12        for (int temp = N; temp != 0; temp = temp / 10) {
13            number = temp % 10;
14            sum = sum + N;
15            product = product * N;
16        }
17        System.out.println(" ");
18        System.out.println("Sum of digits of Number '" + N + "': " + sum);
19        System.out.println("Product of digits of Number '" + N + "': " + product);
20    }
21 }
22
23
```

OUTPUT :

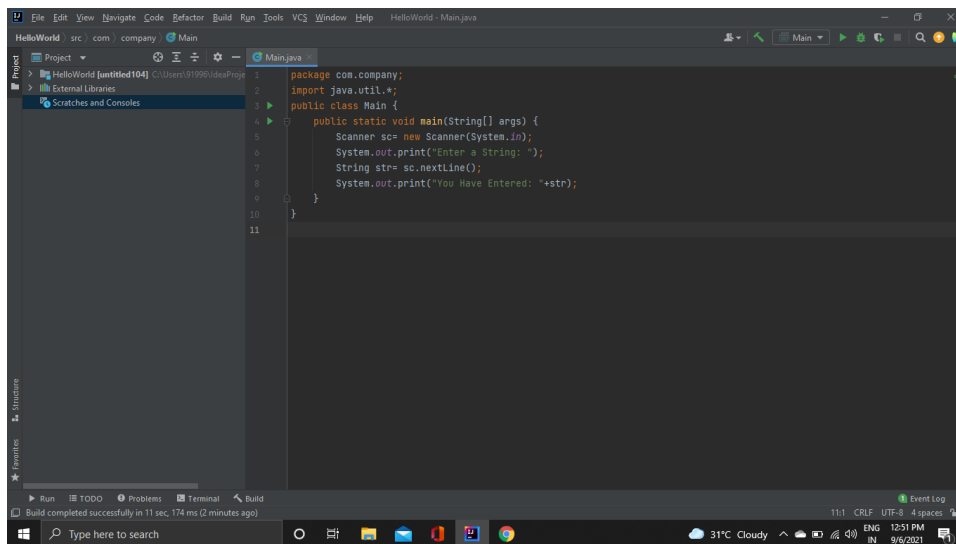


```
sum = sum + N;
product = product * N;
}
System.out.println(" ");
System.out.println("Sum of digits of Number '" + N + "': " + sum);
System.out.println("Product of digits of Number '" + N + "': " + product);
}
}

Run: Main
"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea_rt.jar=55746:C:\Program
20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
Sum of digits of Number '20': 40
Product of digits of Number '20': 400
Process finished with exit code 0
```

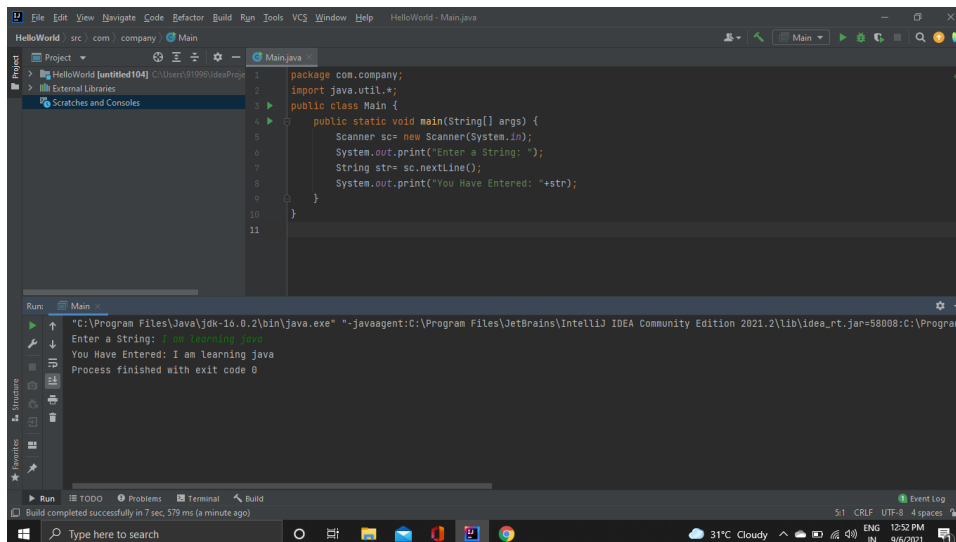
4. Write a program to read a Sentence using scanner and print ?

PROGRAM :



```
1 package com.company;
2 import java.util.*;
3
4 public class Main {
5     public static void main(String[] args) {
6         Scanner sc= new Scanner(System.in);
7         System.out.print("Enter a String: ");
8         String str= sc.nextLine();
9         System.out.print("You Have Entered: "+str);
10    }
11 }
```

OUTPUT :



```
Run: Main
"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea_rt.jar=58008:C:\Program
Enter a String:
You Have Entered: I am learning java
Process finished with exit code 0
```